GP 25-26 Titles Abstract-Male Campus

Sr. No.	GB Title	Abstract
1	Smart home App	A smart app that uses artificial intelligence to connect the homeowners with professionals but adds additional value through: AI-based fault diagnosis: The user photographs or describes the problem (e.g. a water leak), and the system analyses the image/description to determine the type of the service required and estimate the initial.
2	JIAD: Machine Learning-Based Intrusion Detection System for IoT Security	This project focuses on improving the security of IoT devices by integrating an Intrusion Detection System (IDS) with Artificial Intelligence (AI) directly into the network infrastructure—either within the router or as part of the local network. The IDS component performs deep packet inspection to monitor traffic, while the AI module analyses these packets to classify and identify the type of attack based on behavioural patterns and IDS alerts. Captured data—including attacker ID, attack type, protocol used, and targeted port number—is logged for forensic and monitoring purposes. Additionally, this information is visualized through a real-time dashboard accessible to the network administrator. The dashboard provides actionable insights, allowing for quick response and continuous monitoring of Io related threats.
3	Symptom Checker with AI	This project will develop a web that assists users to find possible medical conditions from their symptoms. Based on artificial intelligence, the system will provide probability-based suggestions of probable diseases as well as needed health warnings. The website also features a chatbot interface for convenience in user interaction and accessibility. Although the system is not a professional medical opinion substitute, it can be used as a supporting tool to raise health awareness and urge the users to consult physicians in advance.
4	Smart City Unified Platform	This project aims to build a unified platform that integrates municipal, health, and traffic services within the city in a single digital system. It enables citizens to submit and track various reports (municipal, health, traffic) and receive real-time notifications, while allowing the municipality to receive, review, assign, and monitor these reports via a centralized web dashboard. The platform will use dummy simulated data for demonstration purposes only and is not linked to any real entity.
5	University Event Booking System	This project aims to provide an electronic event booking system that connects students, organizers, and university administration in one unified platform.

6	Phishing URL Detection and Analysis Website	This project focuses on developing a web-based system to detect and analyse phishing URLs. The system allows users to input any URL, which is then evaluated using machine learning models, heuristic analysis, and threat intelligence databases. The goal is to provide real-time detection of phishing attempts, classify URLs as legitimate or malicious, and generate a clear report for the user. The system also stores logs in a database and provides a simple dashboard for monitoring and analysis.
7	Automated Students Attendance System Using Face Detection	The process of managing student attendance is an academically challenging and time-consuming task. Currently, many institutions rely on paper-based forms to record student attendance, which increases the teachers' workload and consumes valuable lecture time. The existing procedure requires teachers to spend long hours entering attendance records into the university system, making the process inefficient and prone to unintentional errors. To address these issues, our project — Automated Student Attendance System Using Face Detection — aims to enhance attendance management by implementing intelligent image processing technology, specifically face detection and recognition. The proposed system will use artificial intelligence to automatically detect and recognize university students by their faces, generating accurate attendance records that are stored in the system's database along with the date and time of attendance.
8	Smart Parking System	The project aims to build a smart parking system that shows whether parking spots are available or occupied in real time. The system will use a simple mobile/web interface with a map view, connected to a backend and database for managing parking data
9	Exam Scheduling Automation System	This project aims to design and develop a system that automates the process of scheduling final exams in universities. Currently, exam scheduling is handled manually, which leads to conflicts, inefficiency, and increased workload for administrators. The proposed system will automatically generate optimized exam timetables based on constraints such as course overlaps, available rooms, and student schedules. The solution will reduce human errors, save time, and ensure fairness in scheduling.
10	CampusCare: An AI-Driven Campus Maintenance Ticketing and Workflow Management System	Effective facility maintenance is a critical component of ensuring smooth campus operations, enhancing user satisfaction, and promoting a safe learning environment. Traditional maintenance request systems at universities often rely on paper-based processes, phone calls, or fragmented digital tools, which lead to delays, lack of transparency, and inefficient task allocation. This project addresses these challenges by introducing CampusCare: An AI-Driven Campus Maintenance Ticketing and Workflow Management System tailored for Jazan University. The primary aim of CampusCare is to streamline the entire maintenance lifecycle—from issue reporting to assignment, resolution, and closure—through a unified, mobile-first platform. The system empowers three key stakeholders: requesters (students and staff), managers (supervisors who allocate tasks and monitor performance),

		and technicians (maintenance staff executing repairs). By integrating Generative AI and computer vision, CampusCare adds an innovative capability: generating intelligent problem descriptions directly from user-uploaded images, reducing ambiguity and improving the accuracy of reported issues. The project will be developed using Oracle APEX, leveraging its rapid application development features, mobile responsive Progressive Web App (PWA) support, and secure database integration. Role-based access control, real-time dashboards, and automated notifications will ensure smooth workflows and accountability. Expected contributions include enhanced transparency, faster response times, improved resource allocation, and datadriven insights for long-term maintenance planning. Anticipated results are a measurable reduction in service delays, improved satisfaction among campus stakeholders, and a scalable model that can be replicated across other universities. Ultimately, CampusCare aligns with Jazan University's digital transformation goals by providing a cost-effective, innovative, and intelligent solution that elevates campus service quality and operational efficiency.